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*** 1 Unified login with pluggable authentication modules (PAM)** 
Vipin Samar
January 1998 Proceedings of the 3rd ACM conference on Computer and communications security
Full text available:  pdf(1.12 MB) Additional Information: full citation, references, index terms

*** 2 Pluggable Authentication Modules for Linux: An implementation of a user-authentication API** 
Andrew G. Morgan
December 1997 Linux Journal
Full text available:  html(25.65 KB) Additional Information: full citation, index terms

*** 3 Computer security: A conceptual framework for testing biometric algorithms within operating systems' authentication** 
Arslan Brömmе, Marcel Kronberg, Oliver Ellenbeck, Oliver Kasch
March 2002 Proceedings of the 2002 ACM symposium on Applied computing
Full text available:  pdf(875.28 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a conceptual framework for testing the implementation of biometric algorithms within Unix and Windows NT/2000 operating systems' login authentication. To support the analysis and evaluation of biometric algorithms, a data logging module will be used, enabling the collection of quantitative data, e.g. timestamps, biometric raw data, (pre)processed data, and return codes from each run of a biometric authentication. It is shown how biometric algorithms and a data logging module ...

Keywords: biometric authentication, evaluation, operating system, robustness, testing biometric algorithms

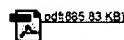
*** 4 Securing applications on Linux with PAM** 
Savio Fernandes, K. L. M. Reddy
October 2002 Linux Journal, Volume 2002 Issue 102
Full text available:  html(25.98 KB) Additional Information: full citation, abstract, index terms

Make your new authentication technology work with Linux applications or add standards-based authentication to your new application.

*** 5 The lightweight directory access protocol** 
Sander van Vugt
September 2001 Linux Journal, Volume 2001 Issue 89
Full text available:  html(21.59 KB) Additional Information: full citation, abstract, index terms

Lighter data retrieval and an alternative to NIS.

*** 6 RBAC in UNIX administration** 
Glenn Faden
October 1999 Proceedings of the fourth ACM workshop on Role-based access control
Full text available: Additional Information:

[Full citation, references, citing, index terms](#)**7 File system encryption with integrated user management**

Stefan Ludwig, Winfried Kalf

October 2001

ACM SIGOPS Operating Systems Review, Volume 35 Issue 4Full text available: [pdf\(655.83 KB\)](#)Additional Information: [full citation, abstract, references, index terms](#)

Existing cryptographic file systems for Unix do not take into account that sensitive data must often be shared with other users, but still kept secret. By design, the only one who has access to the secret data is the person who encrypted it and therefore knows the encryption key or password. This paper presents a kernel driver for a new encrypted file system, called Fairly Secure File System (FSFS), which provides mechanisms for user management and access control for encrypted files. The driver ...

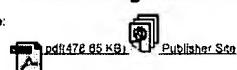
8 Security Issues in the ABELS System for Linking Distributed Simulations

G. Ayorkor Mills-Tettey, Linda F. Wilson

March 2003

Proceedings of the 36th annual symposium on Simulation

Full text available:

Additional Information: [full citation, abstract, index terms](#)

The Agent-Based Environment for Linking Simulations(ABELS) framework is designed to allow physically distributed simulations and other data resources to form a "data cloud" for the exchange of information. In particular, it uses a distributed brokering system to facilitate dynamic linkings between independently-designed, autonomous participants, without requiring the use of stringent standards to which participants must conform. This paper discusses various challenges in developing a security framework ...

9 A survey of customizability in operating systems research

G. Denys, F. Piessens, F. Matthijs

December 2002

ACM Computing Surveys (CSUR), Volume 34 Issue 4Full text available: [pdf\(149.63 KB\)](#)Additional Information: [full citation, abstract, references, index terms](#)

An important goal of an operating system is to make computing and communication resources available in a fair and efficient way to the applications that will run on top of it. To achieve this result, the operating system implements a number of policies for allocating resources to, and sharing resources among applications, and it implements safety mechanisms to guard against misbehaving applications. However, for most of these allocation and sharing tasks, no single optimal policy exists. Differ ...

Keywords: Customizability, microkernels, operating systems, software protection mechanisms

10 Muscle Flexes Smart Cards into Linux

David Corcoran

August 1998

Linux JournalFull text available: [html\(15.88 KB\)](#)Additional Information: [full citation, abstract, index terms](#)

The newest kind of card for your pocketbook offers better security for the information it holds

11 Making computers disappear: appliance data services

Andrew C. Huang, Benjamin C. Ling, John Barton, Armando Fox

July 2001

Proceedings of the 7th annual international conference on Mobile computing and networkingFull text available: [pdf\(91.57 KB\)](#)Additional Information: [full citation, abstract, references, citing, index terms](#)

Digital appliances designed to simplify everyday tasks are readily available to end consumers. For example, mobile users can retrieve Web content using handheld devices since content retrieval is well-supported by infrastructure services such as transformational proxies. However, the same type of support is lacking for input-centric devices, those that create content and allow users to share content. This lack of infrastructural support makes input-centric devices hard to use and less useful. ...

12 TCFS

Ermelindo Mauriello

August 1997

Linux JournalFull text available: [html\(18.57 KB\)](#)Additional Information: [full citation, abstract, index terms](#)

Transparent Cryptographic File System: Think of TCFS as an extended NFS. It acts just like NFS, but allows a user to protect files using encryption

13 Paranoid Penguin: The 101 Uses of OpenSSH: Part I

Mick Bauer
January 2001 **Linux Journal**

Full text available: [html\(20.92 KB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

¹⁴ Software engineering: Efficient mediators through dynamic code generation: a method and an experiment

Yasushi Shinjo, Toshiyuki Kubo, Calton Pu
March 2003 **Proceedings of the 2003 ACM symposium on Applied computing**

Full text available: [pdf\(747.97 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Mediators are well-known software components in the construction of distributed systems and applications, with clear advantages when adding functionality to legacy code. However, mediators that must handle *dynamic interfaces* (i.e., those that may change at run-time such as callback functions) are not easy to build in most imperative languages such as C, due to the many variants implied by the dynamic interfaces. We call this kind of mediators *intermediators*. We propose a systematic ...

Keywords: GINA, closures, code generation, intermediators, mediators, run-time specialization, tempo, user authentication

¹⁵ T-Clipse: an integrated development environment for two-level grammar

Beum-Seuk Lee, Xiaoqing Wu, Fei Cao, Shih-hsi Liu, Wei Zhao, Chunmin Yang, Barrett R. Bryant, Jeffrey G. Gray
October 2003 **Proceedings of the 2003 OOPSLA workshop on eclipse technology eXchange**

Full text available: [pdf\(238.37 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

T-Clipse is an Integrated Development Environment (IDE) using Eclipse developed for Two-Level Grammar (TLG), a high-level formal specification language. In our research, given a programming language, TLG is used to specify the syntax and semantics of the language to generate an interpreter for that language. This IDE provides a user-friendly environment for editing and navigation of TLG source codes, as well as parsing and error tracing at the source code level and interpreter generation for pro ...

¹⁶ Large-scale mail with Postfix, OpenLDAP and courier

Dave Dribin, Keith Garner
February 2003 **Linux Journal**, Volume 2003 Issue 106

Full text available: [html\(25.24 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Here's a flexible solution for hosting mail for many domains on one server.

¹⁷ The Cutting Edge

Joseph Pranevich
April 1999 **Linux Journal**

Full text available: [html\(14.70 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Security Research Laboratory and Education Center: The world-class research center at Purdue University is getting serious about cutting edge development of security related projects

¹⁸ Best of technical support

Linux Journal Staff
September 2004 **Linux Journal**, Volume 2004 Issue 125

Full text available: [html\(12.78 KB\)](#)

Additional Information: [full citation](#)

¹⁹ Best of technical support

CORPORATE Linux Journal Staff
April 2002 **Linux Journal**, Volume 2002 Issue 96

Full text available: [html\(13.20 KB\)](#)

Additional Information: [full citation](#), [index terms](#)

²⁰ User Administration: How to successfully manage your users

David Bandel
December 1997 **Linux Journal**

Full text available: [html\(20.99 KB\)](#)

Additional Information: [full citation](#), [index terms](#)